

HILTON SUITES, TORONTO/MARKHAM, ONTARIO OCTOBER 28 – 31, 2002

MONDAY, OCTOBER 28, 2002

08:15 - 16:30 WORKSHOP - Diesel Emission Control in Mines (Butternut Room)

18:00 - 20:00 PRE-REGISTRATION (Markham Ballroom Foyer)

TUESDAY, OCTOBER 29, 2002 (Markham Ballroom)

07:00 REGISTRATION

08:00 CONFERENCE OPENING CEREMONIES:

Welcome and Introduction, Edward Richards (Lubrizol - ECS), Co-Chair MDEC

Keynote Address, Heroes and Reasoned and Reasonable Partnerships, Dr. Lewis Wade, Associate Director – Mining, NIOSH

Organization, Mahe Gangal (NRCan -CANMET), Co-chair MDEC

Conference arrangements, Melody Edwards (Lubrizol-ECS), Conference Manager

08:30 SESSION 1: DIESEL EMISSIONS EVALUATION PROGRAM (DEEP) REVIEW CHAIRPERSON: Bruce Conard (INCO)

Diesel Particulate Filter Study at INCO's Stobie Mine, <u>Joe Stachulak (INCO)</u> - PRESENTATION COPY NOT AVAILABLE

Evaluation of Diesel Particulate Filter Systems at INCO's Stobie Mine, <u>Aleksandar Bugarski</u> and George Schnakenberg (NIOSH)

Light Duty Vehicle Project Update, *Brent Rubeli* (NRCan – CANMET)

10:00 BREAK

10:30 SESSION 1: DEEP REVIEW - continued

Concluding the Field Test of Diesel Particulate Filters at Noranda – Brunswick Mine, <u>Sean McGinn</u> (Noranda), Michel Grenier and Mahe Gangal (NRCan-CANMET), Aleksandar Bugarski and George Schnakenberg (NIOSH), Dale Petrie, Ralph Johnson and Mike Kingston (Noranda- Brunswick Mine)

Post-Field Evaluation of DEEP/Noranda Filter Traps, <u>Mahe Gangal</u>, Brent Rubeli, Dave Young & Vince Feres (NRCan-CANMET) and Sean McGinn (Noranda)

Technology Transfer of the DEEP Maintenance Project, <u>Sean McGinn</u> (Noranda), <u>Bob Huzij</u> (Cambrian College) and <u>David Cisyk</u> (IMC Potash)

12:00 LUNCH - introduction of all sponsors

13:00 SESSION 2: FIELD STUDIES - I CHAIRPERSON: Gary Allen (HBMS)

Results of Two High Altitude Isolated Zone Studies Involving Diesel Powered Coal Mine Equipment and Exhaust Filters, <u>G. Schnakenberg</u> & A. Bugarski (NIOSH) - PRESENTATION COPY NOT AVAILABLE

Canyon Fuel Company's Diesel Emission Reduction Program, <u>Steve Forbush</u> (Canyon Fuel Company)

Determination of Effective Operating Diesel Engine Power on Ventilation, <u>Kuda R. Mutama</u> (Barrick Goldstrike Mines) and Darren Campbell (Queens University)

Diesel Emulsion Fuel Reduces Diesel Particular Matter in the Mines, Ron O. Dunfee (Lubrizol)

15:00 BREAK

15:30 SESSION 3: POWERTRAIN TECHNOLOGIES

CHAIRPERSON: John Vergunst (Ontario Ministry of Labour)

The Fuel Cell Mining Vehicles Development Program: An Update, <u>Marc C. Bétournay</u> (NRCan-CANMET)

Development of a Hybrid Scooptram, Sylvain Ouellette and D. A. Young (NRCan-CANMET)

Detroit Diesel Emissions Perspective, Robin Ungar (Detroit Diesel)

17:00 ADJOURNMENT

17:00-19:00 CASH BAR, RECEPTION & NETWORKING at Displays

WEDNESDAY, OCTOBER 30, 2002 (Markham Ballroom)

8:00 SESSION 4: CONTROL TECHNOLOGIES CHAIRPERSON: Brian Davies (AEHS/Victoria University of Technology)

MSHA Investigation of NO₂ Generation by Platinum-based Catalyzed Ceramic Diesel Particulate Traps, <u>Bob Setren</u> (MSHA)

Passive and Actively Regenerated Particulate Filter Systems for Mining Applications, <u>Kevin Brown</u> (ECS)

Retrofit of Mining Equipment with Diesel Particulate Filter Systems: The Challenges and the Solutions, Karen Schirmer and Beat Wälti (DCL International) - PRESENTATION COPY NOT AVAILABLE

Application of Non-Thermal Plasma to Diesel Particulate Control, <u>Hannu Jääskeläinen</u> and James S. Wallace (University of Toronto)

10:00 BREAK

10:30 SESSION 5: FIELD STUDIES - II CHAIRPERSON: Nicole Goyer (IRSST)

Diesel Particulate – The Australian Experience, <u>Brian Davies</u> (AEHS Pty Ltd/Victoria University of Technology)

Impact of Low-Emission Diesel Engines on Underground Mine Air Quality: Physical Measurements, <u>W. F. Watts</u> (University of Minnesota), S. T. Bagley (Michigan Technological University) and D. B. Kittelson (University of Minnesota)

Impact of Low-Emission Diesel Engines on Underground Mine Air Quality: Chemical and Biological Measurements, <u>S. T. Bagley</u> (*Michigan Technological University*), W. F. Watts (University of Minnesota), J. J. Schauer (University of Wisconsin-Madison) and J. H. Johnson (Michigan Technological University)

12:00 LUNCH - award of draw prizes

13:00 PANEL: DIESEL EMISSIONS EVALUATION PROGRAM (DEEP) – Where do we go from here?

Moderator – Charles Graham (CAMIRO)

Panellists:	Dave Cisyk (IMC Kallium)	Bernie Deck Ontario Ministry of Labour)
	Ray Ellington (Morton Salt)	Michel Grenier (NRCan-CANMET)
	Sean McGinn (Noranda)	Jennifer Penny (USWA)

14:00 SESSION 6: REGULATORY UPDATES CHAIRPERSON: Glen Rees (Cummins Inc.)

MSHA's DPM Standard: Sampling and Compliance Strategies for Metal and Non-metal Mines, *William Pomroy (MSHA)*

Diesel Particulate Filters: Regulations and Status of Technology, W. Addy Majewski (Ecopoint)

15:00 BREAK

15:30 SESSION 7: DPM INSTRUMENTATION CHAIRPERSON: John Petherick (MASHA, Ontario)

Tapered Element Oscillating Microbalance Technology, *H. Patashnick, M. Meyer, B. Rogers and <u>B.</u> <u>Anderson</u> (Rupprecht & Patashnick)*

Development of an On-Board Diesel Particulate Sampling System with Proportional Flow, <u>B. Rubeli</u> and K. Butler (NRCan-CANMET)

Quantitative Characterization of Diesel Particulates: Development of the Self-Calibrating Laser-Induced Incandescence Technique, <u>W. Stuart Neill</u>, Gregory J. Smallwood and David R. Snelling (National Research Council, Canada), William D. Bachalo (Artium Technologies)

17:00 ADJOURNMENT

THURSDAY, OCTOBER 31, 2002

ROUNDTABLE FORUM

	JASMINE ROOM	MAPLE ROOM
08:30	Application of Low Emission Engines and Fuels	Implementation of Emission Regulations
	FACILITATOR: Win Watts (University of Minnesota)	FACILITATOR: Michel Grenier (NRCan- CANMET)
10:00	COFFEE BREAK	COFFEE BREAK
10:30	Practical Considerations for Emission Control Technologies	Techniques for DPM Monitoring FACILITATOR: Kevin Brown (Lubrizol-ECS)
	FACILITATOR: Joe Stachulak (INCO)	
12:00	ADJOURNMENT	ADJOURNMENT